

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A control device for controlling ~~which controls~~ an industrial machine, comprising:

a registrant information storing portion that stores registrant information of registrants of the device;

a registrant recognition portion configured to receive user information input from a user of the industrial machine and determine whether the user of the industrial machine is a registrant of the device by matching the input user information with the registrant information stored in the registrant information storing portion;

an operation condition setting portion configured to output a setting of at least one operating condition of the industrial machine inputted from the registrant of the device;

a permission control portion configured with at least two internal states including a setting inhibition state that prohibits the operation condition setting portion from outputting the setting of the at least one operating condition of the industrial machine; and

a display portion that displays information on a screen display;

wherein the screen display is divided into at least two regions such that each of the two regions display information to the registrant of the device to control the industrial machine.

~~a unit which determines whether an user is a registrant registered in advance;~~

~~a unit which, when the user is determined to be the registrant, selects one of a setting permission state and a setting inhibition state individually for at least one operating condition of the industrial machine in accordance with operation of the registrant; and~~

~~a setting unit which accepts from the registrant a setting of the operating condition for which the setting permission state is selected.~~

2. (Currently Amended) ~~[[A]]~~ The device according to of claim 1, further comprising:

a log display portion that provides the display portion with setting log data based on the setting data outputted from the operating condition setting portion,

wherein the display portion displays the setting log data provided by the log display portion.

~~in which the setting unit stores a setting log of the operating condition when a setting of the operating condition for which the setting permission state is selected is accepted, and which further comprises a unit that displays the setting log of the operating condition.~~

3. (Currently Amended) ~~[[A]]~~ The device according to of claim 1, further comprising

wherein the permission control portion has a second setting inhibition state that prohibits the operation condition setting portion from outputting a setting of another operating condition of the industrial machine which is different from the at least one operating condition of the industrial machine.

~~a unit which provides the registrant individually for the at least one operating condition with a screen capable of selecting at least one of the setting permission state and the setting inhibition state individually for the at least one operating condition of the industrial machine.~~

4. (Currently Amended) ~~[[A]]~~ The device according to of claim 1,

wherein the display device displays an indication for the setting inhibition state on the screen; and

wherein a prohibition control portion selects the setting inhibition state when the indication is operated by the registrant of the device.

~~which further comprises a unit that provides the registrant with at least one screen used to set the at least one operating condition, and~~

~~in which the selection unit selects at least one of the setting permission state and the setting inhibition state for the at least one screen in accordance with the operation of the registrant, and~~

~~the setting unit accepts a setting of the operating condition using the screen for which the setting permission state is set.~~

5. (Currently Amended) ~~[[A]]~~ The device according to of claim 1,
wherein the registrant information includes an identification code and a password.
~~wherein the determination unit determines whether the user is the registrant in~~
~~accordance with whether an identification code and a password code coincide with a~~
~~corresponding code.~~

6. (Currently Amended) ~~[[A]]~~ The device according to of claim 1,
wherein the registrant information includes parameters selected from the group
consisting of a fingerprint, a voiceprint, an iris, a personal image, and a vein pattern.
~~wherein the determination unit determines that the user is the registrant when at least~~
~~one of a fingerprint, a voiceprint, an iris, a personal image, and a vein pattern coincides with~~
~~a corresponding code.~~

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7. (Currently Amended) ~~[[A]]~~ The device according to of claim 1,
wherein the industrial machine includes any one machine selected from the group
consisting of an injection molder, an extruder, a machine tool, a die casting machine, a robot,
a semiconductor manufacturing device, and a printing device.

8. (New) The device of claim 1, wherein the industrial machine is an injection
molder and the at least one operating condition of the industrial machine is a molding
condition of the injection molder.

9. (New) The device of claim 1, further comprising:
an operating condition storing portion that receives and stores the setting of the at
least one operating condition of the industrial machine outputted by the operating condition
setting portion.

10. (New) The device of claim 1, wherein the two regions of the screen display
are a main screen region and a sub screen region.

11. (New) The device of claim 10, wherein the display portion includes:
a main screen memory that stores image information of the main screen region;
a sub screen memory that stores image information of the sub screen region;
a screen data memory that stores image information of the screen display, the screen
data memory being different from the main screen memory and the sub screen memory; and
a screen display unit configured to display the image information of the screen data
memory on the screen display.

12. (New) The device of claim 11, wherein the display portion further includes:
a screen controller configured to receive the image information of the main screen region from the main screen memory, to receive the image information of the sub screen region from the sub screen memory, and to output image information created on the basis of the image information of the main screen region and the image information of the sub screen region to the screen data memory.
13. (New) The device of claim 12, wherein the screen controller creates the image information on the basis of data input from the registrant recognition portion.
14. (New) The device of claim 11, wherein the display portion further includes
a touch panel which is transparent and is attached to the screen display unit.
15. (New) The device of claim 14, wherein the display portion further includes
a direct screen selection unit comprising a button on the main screen region,
wherein, when the button on the main screen region is touched, a screen
corresponding to the touched button on the main screen region is displayed in the main screen region.
16. (New) The device of claim 14, wherein the touch panel is attached to the
entire sub screen region;
wherein a current value button is displayed on the sunscreen region,
wherein, when the current value button is touched, the sub screen region displays
current state information of the industrial machine.

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17. (New) The device of claim 16, wherein the current state information includes information regarding one or more of the group consisting of injection time, cooling time, medium time, screw position, die plate position, extrusion position, injection pressure/back pressure, clamping force, and screw speed.

18. (New) The device of claim 15, wherein the display portion further includes an input signal controller configured to receive information from the touch panel and the direct screen selection unit and to output information to the screen controller.

19. (New) The device of claim 18, further comprising:
an input setting unit that receives, via the touch panel and the input signal controller, at least information about operating conditions and the user information, and outputs at least the user information to the registrant recognition portion.

20. (New) The device of claim 4, wherein the indication for the setting inhibition state on the screen is an execute confirmation button of lock function.

21. (New) The device of claim 10,
wherein the industrial machine is an injection molder; and
wherein the main screen region displays controller function switches for operating a controller function of the injection molder and setters for setting molding conditions of the injection molder.

22. (New) The device of claim 20,
wherein the sub screen region displays monitoring data to be displayed in succession.

23. (New) The device of claim 10,
wherein the industrial machine is an injection molder; and
wherein the sub screen region displays at least a current value button, a temperature button, a monitor table button, a production button, and a non display button.

24. (New) The device of claim 10,
wherein the at least two internal states of the permission control portion include a setting permission state that permits the operation condition setting portion to output the setting of the at least one operating condition of the industrial machine;
wherein the sub screen display displays a lock button when the permission control portion selects the setting permission state, and
wherein the sub screen display displays an unlock button when the permission control portion selects the setting inhibition state.

25. (New) The device of claim 24, wherein the display portion displays a window for inputting the user information when the unlock button is touched.

26. (New) The device of claim 25, wherein the display portion displays a lock confirmation window when the lock button is touched.

27. (New) The device of claim 10, wherein the display portion displays a registrant information setting screen to store registrant information of a new registrant into the registrant information storing portion if the registrant of the device is a person in charge.

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28. (New) The device of claim 27, wherein the registrant information setting screen has a password input button and a screen setting button;

wherein a first window opens when the password input button is touched, and

wherein a second window opens when the screen setting button is touched.

29. (New) The device of claim 2, wherein the display portion displays a log screen based on the setting log data;

wherein the log screen comprises identification codes of persons who performed set operations.

30. (New) The device of claim 1, wherein the display portion further comprises a fingerprint biometrical authentication unit;

wherein the registrant information includes an identification code and fingerprint data, and

wherein the registrant recognition portion performs biometrical authentication processing without an input of the identification code when the fingerprint biometrical authentication unit is touched with a finger of the registrant of the device.